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[muRata]MEFSS Download Service
Home > MEFSS Download Service. Murata **EMI Filter** Selection **Simulator**
Version 2.7.0 Download Service Updated. The Murata **EMI Filter ...**
www.murata.com/**emi**/ - 6k - Cached - Similar pages

[muRata]Press Release Murata **EMI Filter** Selection
Simulator
... NR0143. Murata Releases New Version 2.1.0 of "Murata **EMI**
Filter Selection **Simulator**" Software for **EMI** Suppression
Component Selection Support - Enables noise ...
www.murata.com/ninfo/nr0143e.html - 16k - Cached - Similar pages
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[muRata]MEFSSダウンロード :

トップ > MEFSSダウンロードサービス. Murata **EMI Filter** Selection **Simulator** Version
2.7.0 ダウンロードサービス更新のご案内. ...
www.murata.co.jp/**emi**/ - 8k - Cached - Similar pages

[muRata]MEFSSの仕様 :

トップ > MEFSSダウンロードサービス > MEFSS の仕様. Murata **EMI Filter** Selection
Simulatorの仕様. ...
www.murata.co.jp/**emi**/readme_mefss_j.html - 19k - Cached - Similar pages
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STMicroelectronics | DISCRETE | IPAD | **EMI FILTERS** FOR LCD ...
... The figure 3 below shows S12 parameter obtained with Aplac **simulator**. ... package
using 315 µm bumps diameter with 500 µm pitch and manages **EMI filter** and ESD ...
www.st.com/stonline/products/families/ discretes/ipad/promotion/**filter**_lcd.htm - 29k -
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SSS Online - **EMI / EMC** STUFF Page
... **EMI**/EMC Software. Download EMC **Filter Simulator** Program (~213K) SpectraSoft —
Electromagnetic Interference Software for electrical engineers and EMC ...
www.sss-mag.com/emc.html - 20k - Cached - Similar pages

[PDF] AND8032/D Conducted **EMI Filter** Design for the NCP1200
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... On the paper, by hand or with a **simulator**, we can ... final attenuation from the input of
the **filter** (where the ... connects) to the final output of the **EMI** receiver. ...
www.on**semi**.com/pub/Collateral/AND8032-D.PDF - Similar pages

EMI filter simulator now has new features
... **EMI filter simulator** now has new features. 25 SEPTEMBER 2002. Simulation of
differential mode circuits has been added to Murata's **EMI filter simulator**. ...
dataweek.co.za/news.asp?pklNewsID=8135& pklIssueID=411&pklCategoryID=47 - 28k -
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butterworth **filter** poles on GlobalSpec

... Learn more about **EMI Filters** and RFI **Filters**. ... and zeros and transfer function.....2.Â butter.zip:Â Â Low, high, and bandpass Butterworth **filter simulator**. ... data-acquisition.globalspec.com/ Industrial-Directory/butterworth_**filter**_poles - 32k - Cached - Similar pages

EEProductCenter.com :: EMI filter replaces 20 discrete devices in ...
... that acts as an antenna by radiating **EMI** when data ... is due to a reduced **filter** capacitance value of ... download free demo Analog circuit **simulator** with schematic ... www.eeproductcenter.com/passives/ brief/showArticle.jhtml?articleID=20800143 - 22k - Cached - Similar pages

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Military Filters and EMI Filter Design at LCR-Inc.
LCR Inc. meets the military and aerospace testing standards for military
rfi filters and **emi filter design** with global manufacturing capabilities. ...
www.lcr-inc.com/filter**design**.htm - 21k - Jun 24, 2004 -
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EMI Filter Design, EMI Engineering at LCR-Inc.
LCR Inc. provides **emi filter design** and emi engineering
assistance, in compliance with EMC standards. ...
www.lcr-inc.com/products/emcfilters.htm - 33k -
Cached - Similar pages
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Amazon.com: Books: EMI Filter Design Second Edition Revised and ...
... Book Description This practical resource offers complete coverage of
electromagnetic interference **(EMI) filter design**, particularly for
conducted emissions ...
www.amazon.com/exec/obidos/ tg/detail/-/0824789245?v=glance - 52k -
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... **EMI Filter Design**. ... Supplying simple parameters and techniques for
creating manufacturable, repeatable products, the Second Edition of **EMI
Filter Design**: ...
qtb.com/Merchant2/merchant.mv?Screen=PROD&
Store_Code=QTB&Product_Code=MD20&Category_Code=D - 10k -
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[PDF] Computerized Conducted EMI Filter Design System Using LabVIEW and ...
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... This computerized system can provide both accurate noise
Computerized Conducted **EMI Filter Design** System Using LabVIEW and
Its Application C HIA -N AN CHANG, H ...
nr.stic.gov.tw/ejournal/ProceedingA/v25n3/185-194.pdf - Similar pages

Power Electronics Books - O
... Ozenbaugh, Richard Lee, **EMI Filter Design**, Marcel Dekker, 1996. 252 p. ...
Ozenbaugh, Richard Lee, **EMI Filter Design**, 2nd ed., rev. and expanded. ...
www.smpstech.com/books/booko.htm - 7k - Cached - Similar pages

Amphenol Filter Products
... The Amphenol **EMI filter** connector utilizes two manufacturing technologies to provide
the user ... The tubular capacitor **design** offers over 30 years of proven field ...
www.amphenol-aerospace.com/products_filter.html - 11k - Cached - Similar pages

EJBLOOM SHOPPING
... Pages, Price. 129, **EMI Filter Design** (2nd Edition), R. Ozenbaugh, 350, $175.00, 0.
NEW ...

www.ejbloom.com/bookproducts. asp?product=706&category=94 - 10k -
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[PDF] AND8032/D Conducted **EMI Filter Design** for the NCP1200
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... 2 1 Publication Order Number: AND8032/D AND8032/D Conducted **EMI Filter Design** for
the NCP1200 Prepared by: Christophe Basso ON Semiconductor INTRODUCTION If ...
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SMPS On Line Book
... **EMI Filter Design**. Nearly all power circuits contain an input electromagnetic interference
(EMI) filter. The main purpose of the ...
www10.edacafe.com/book/parse_ book.php?article=SMPS%2F293emi.htm - 17k -
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MPE Ltd - Kirkby - All Industry - EMC/**EMI/RFI**/Filters, - MPE Ltd
... and production of high performance **RFI**/EMC/NEMP **...** be noted that many of the **filter** ranges available ... EMC - Mains Filters EMC - Solutions **EMI, RFI** - Components, ...
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rf **filter design software** on GlobalSpec
... Learn more about **EMI** Filters and **RFI** Filters. Hydraulic Filters (91 companies) Hydraulic filters and **filter** elements for handling petroleum-based oils ...
rf-**filters**.globalspec.com/ Industrial-Directory/rf_**filter_design_software** - 59k - Cached - Similar pages

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... and Seacor products **EMI** and **RFI** Filters - Custom ... is pleased to offer custom **EMI** filters designed ... Electrocube provides solutions for unique **filter** requirements. ...
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PSU Behrend EET - David R. Loker
... Transportation Systems; Erie, PA **Software** Specialist, 1994 ... Inc.; Girard, PA **Filter Design** Engineer, 1990 ... taught course on **EMI/RFI filter design** which involved the ...
www.personal.psu.edu/faculty/d/r/drl3/industrial.htm - 8k - Cached - Similar pages

Linux **Software** [IceWalkers.com]
... Offers EMC testing, **EMI Filter design**, development and ... and repairs modular **RFI** and EMC ... Industries Incorporated - Manufacturers **EMI/RFI** shielding,insulators ...
www.icewalkers.com/opd/Business/Electronics_ and_Electrical/Hardware/Shields_and_Shielding/ - 20k - Cached - Similar pages

APW > Products/Services > Capabilities > **Design** Verification ...
... , **EMI/RFI** Attenuation: 14' x 10' shield room ... , **EMI** Test **Software**: Tektronix S26EM12. ... , RF Preselector: Tektronix 2706 is used to **filter** unwanted signals. ...
www.apw.com/productsServices/ capabilities/EMIRFItesting.jsp - 35k - Cached - Similar pages

Archtek / SmartLink
Line interactive **design** Fully digitized microprocessor controlled Tel/modem ... surge suppression Boost and buck AVR **EMI/RFI** noise **filter** Surge protection ...
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Product Details
... Linear interactive **design** Fully digitized microprocessor controlled Smart RS-232 ... 50/60
Hz frequency auto sensing **EMI/RFI** noise **filter** Cold start (DC ...
www.generalsales.com/gse/ cat/Catalog_Detail.asp?ProductID=1326 - 38k -
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Universal Air **Filter** - Electronic Air Filters, Telecom Air Filters ...
... agent detector, on a 90-day **design**/build fast ... made workable by new air **filter**
technology that promotes airflow while simultaneously providing **EMI/RFI** shielding ...
www.uaf.com/news.htm - 23k - Cached - Similar pages

Interference Technology
... NON-METALLIC/COMPOSITE - FOR **RFI / EMI**; CABINETS, SHIELDED; ... **FILTER**
ARRAYS; **FILTER** PINS; **FILTER** WIRE / CABLE; ... SWITCHES, **EMI/RFI** SHIELDED;
SYSTEM ASSESSMENT, EMP, SGEMP ...
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... results show some good agreements with the simulated results, which are accomplished
by **MATLAB** program. Keywords: Conducted **EMI** emission, prediction, impedance ...
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from modeling of boost converter This research uses **MATLAB** program for ...
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[PDF] Towards a Viable Forward Model for **EMI** UXO Detection and ...
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... β interface Presentation Outline Introduction – Motivation **Matlab** Demonstration
Forward ... interface β interface Introduction – Motivation **EMI** is promising ...
ceta-p5.mit.edu/users/barrowes/ceta-presentations/ 2003_04__axial_forward_model.pdf - Similar pages

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... Barrowes BE, Teixeira FL, and Kong JA, "Electromagnetic Induction (**EMI**) Response
from ... Barrowes B. E., "matlab2fmex.m", **Matlab**™ to Fortran90 MEX ...
ceta-p5.mit.edu/users/barrowes/other/barrowes_cv.pdf - Similar pages

[PDF] IAS 2003 Tutorial Abstracts
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... Explanation of a LISN (**Matlab** program) - How to predict CE101, CE102 conducted
EMI (**Matlab** program) - Measurement of common mode and differential mode ...
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... measurement deviation between the time- domain measurement system and the **EMI** receiver
is ... and D. Muel- ler for carrying out measurements and **Matlab** simulations ...
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... Various kinds of digital filter design using **Matlab** and implementation ... Papers: S.
Shahparnia, OM Ramahi, "Electromagnetic Interference (**EMI**) Reduction from ...
www.enee.umd.edu/~shahrooz/documents/resumePDF.pdf - Similar pages

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Behind and Beyond the **MATLAB** ODE Suite * Ryuichi Ashino † Michihiro Nagase
‡ R´ **emi** Vaillancourt § CRM-2651 January 2000 * Dedicated to Professor ...
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... Phase angle based **EMI** object discrimination and analysis of data from a commercial
differential two frequency system Claudio Bruschini *a,b , Hichem Sahli b a ...
diwww.epfl.ch/lami/detec/SPIE2000.pdf - Similar pages

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... Electromagnetic Induction **(EMI)** Transmitted primary field outside a metallic target
induces ... & Future Work Completed or Near-completed Work: • **MATLAB** code to ...
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[muRata]Press Release **Murata EMI** Filter Selection **Simulator**
... NR0143. **Murata** Releases New Version 2.1.0 of "**Murata EMI** Filter Selection **Simulator**"
Software for **EMI** Suppression Component Selection Support - Enables noise ...
www.**murata**.com/ninfo/nr0143e.html - 16k - Cached - Similar pages

[muRata]MEFSS Download Service
Home > MEFSS Download Service. **Murata EMI** Filter Selection **Simulator**
Version 2.7.0 Download Service Updated. The **Murata EMI** Filter ...
www.**murata**.com/emi/ - 6k - Cached - Similar pages
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[muRata]MEFSSダウンロード :
トップ > MEFSSダウンロードサービス. **Murata EMI** Filter Selection
Simulator Version 2.7.0 ダウンロードサービス更新のご案内. ...
www.**murata**.co.jp/**emi**/ - 8k - Cached - Similar pages

[muRata]MEFSSの仕様 :
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の仕様. **Murata EMI** Filter Selection **Simulator**の仕様. ...
www.**murata**.co.jp/**emi**/readme_mefss_j.html - 19k - Cached - Similar pages
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On The Wireless Front
... listing functions. Free distribution of the software—dubbed the
Murata EMI Filter Selection **Simulator**—is currently ongoing. ...
www.wsdmag.com/Articles/ Index.cfm?ArticleID=6532&pg=3 - Similar pages

Avnet Electronics Marketing -> IP & E -> Manufacturer Gateway
... **Murata** Develops Chip Ferrite Beads to Provide **EMI** Suppression into the GHZ.
Murata Electronics Announces High Frequency Ultrasonic Sensors. More >>, ...
www.em.avnet.com/mgw/home/ 0,4623,RID%253D0%2526CID%253D4959%2526CCD%253DUSA%2526SID%
253D4632%2526DID%253D... - 37k - Cached - Similar pages

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precisely Better audibility www.**murata**: **EMI** Filter **simulator** Small DC choke ...
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... **Murata** provides an extensive range of **EMI** filters and RF chip inductors, but these
must be accommodated from the beginning, and they occupy space in rapidly ...
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[muRata]EMC Solutions>Noise Suppression Examples

... Installing **EMI** Filters on the Clock Line, Installing **EMI** Filters on High-speed
Bus Lines, Installing **EMI** Filters on Bus Lines, ... After installing the **EMI** filter, ...
elka.ee.itb.ac.id/~waskita/pareto. isrg.itb.ac.id/emc/noise/d_4/dvd_9.html - 12k - Cached - Similar pages

[muRata]EMC Solutions>Noise Suppression Examples
... Using an incorrectly selected **EMI** filter will deteriorate picture quality. ... Installing
EMI filters on the Clock Line, Installing **EMI** filters on Bus Lines, ...
elka.ee.itb.ac.id/~waskita/pareto. isrg.itb.ac.id/emc/noise/d_1/deskpc_8.html - 15k -
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[muRata]About MEFSS
... History Version 1.0.0 **1999**/09/10 **Murata** original interface ... Chip common mode choke coil for **EMI** Prevention ... the layout of charts in the **simulation** of Differential ...
www.**murata**.com/**emi**/readme_mefss.html - 20k - Cached - Similar pages

[muRata]history
... 3.23 update: Product Information : **Murata EMI** Filter Selection **Simulator** Version 1.1.0 ... Product Information : **Murata** has for the first time in the World ...
www.**murata**.com/ontop/history/ - 68k - Cached - Similar pages

[PDF] **Murata** mail 10 (Page 3)
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... you will find exten- sive and free **EMI simulation** facilities. ... which you can reduce noise with **Murata EMI** filters ... print in one machine cycle, using **Murata** MLCCAs ...
www.**murata**-europe.com/MM10_spring2003.pdf - Similar pages

[PDF] Autumn 2 0 0 2 In this issue :
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... In October **1999**, to alleviate this problem, **Murata** ... convenient assessment of the effects **Murata EMI** filters in a ... the use of a commercially available **simulator**. ...
www.**murata**-europe.com/MM9_autumn2002.pdf - Similar pages

ferrite beads Engineering Web Search Results
... **muRata]Murata EMI** Filter Selection **Simulator** ...new version ... More results from this site: www.**murata**.com ... capacitors, inductors, ferrite beads, **EMI** filters, surge ...
search.globalspec.com/Industrial/Ferrite_Beads - 32k - Cached - Similar pages

[muRata]MEFSSの仕様 :
... Mfg」の中の 「**Murata EMI** Filter Selection **Simulator**」を選択してください。・ファイルメニューの ... チップ**EMI**除去フィルタ ...
www.**murata**.co.jp/**emi**/readme_mefss_j.html - 19k - Cached - Similar pages

[muRata]更新経歴
... **EMI**除去フィルタ選択支援ソフト **Murata EMI** Filter Selection **Simulator** 改訂版をリリース ... semiannual Report『**1999**年（平成9年）9 ...
www.**murata**.co.jp/ontop/history/index2001.html - 44k - Cached - Similar pages

[PDF] **EMI**フィルタ選択支援ソフトを使って ...
File Format: PDF/Adobe Acrobat - View as HTML
... 本誌 2000 年 1 月号 （**1999** 年 12 ... 本稿では，ノイズ対策支援ソフトウエア「**Murata EMI** Fil ter Selection **Simulator**」を使い，**EMI** ...
www.cqpub.co.jp/dwm/contents/0025/dwm002500641.pdf - Similar pages

FUJI ELECTRIC
... Fuji Electric, taking **EMI simulation** technology as one of electromagnetic ... **Simulation**

Technology for Magnetic Switches Susumu **Murata**, Hideki Daijima **...**
www.fujielectric.co.jp/eng/ company/tech/contents2000_9_2.html - 16k - <u>Cached</u> - <u>Similar pages</u>

<u>Appendix D. Site Reports-Japan</u>
... sensitivity analysis and monte carlo **simulation** for optimization ... For example, **Murata**
did not stop at ... of, say, capacitors for **EMI** (electromagnetic interference **...**
www.wtec.org/loyola/wireless/0d_07.htm - 16k - <u>Cached</u> - <u>Similar pages</u>

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[PDF] <u>AND8032/D Conducted **EMI Filter Design** for the NCP1200</u>
File Format: PDF/Adobe Acrobat - <u>View as HTML</u>
... other equipments necessitates an adequate ElectroMagnetic
Interference (**EMI**) input **filter**. Fortunately, friendly methods such as
SPICE exist to isolate ...
www.on**semi**.com/pub/Collateral/AND8032-D.PDF - <u>Similar pages</u>

<u>Technical Literature - Application Notes</u>
... Conducted **EMI Filter Design** for the NCP1200, AND8032/D,
534.0, 2, 06-APR-04. ... **SPICE** Device Model NTHD5904T1,
AND8047/D, 33.0, 0, 24-OCT-03. ...
www.on**semi**.com/site/support/literature/list/
0,4456,appsnotes_0,00.html?startPos=101&outputSize=50& - 39k
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... Magnetic Elements. Saturable Core Modeling; **SPICE** 2 Compatible
Core Model; **SPICE** 3 Compatible Core Model; ... High Frequency
Winding Effects **EMI Filter Design**. ...
www10.edacafe.com/book/ parse_book.php?article=SMPS/SMPS.htm
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... The **EMI** presented in this chapter is **designed** for the ... be
easily modeled by any of our **spice** simulators ... The model used
for the **EMI filter** is shown in Figure 10-1 ...
www10.edacafe.com/book/ SpiceHandBook/04_chapter03-11.php
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<u>EEProductCenter.com :: **EMI filter** replaces 20 discrete devices in ...</u>
... that acts as an antenna by radiating **EMI** when data ... is due to a reduced **filter**
capacitance value of ... **Spice** Circuit Simulation - download free demo Analog circuit ...
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... Contents: **SPICE** Modeling of Magnetic Components; **EMI Filter Design**; Buck Topology
Converters; Flyback Converters; Low Dropout Linear Regulator; DC-to-AC ...
opamp.com/cf/ browse.cfm?Main=ELECTRONICS%2FCOMMUNICATIONS&Sub1=SPICE
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<u>Applied Simulation Technology</u>
... This makes the evaluation of **EMI** noise **filters** and non ... Using **SPICE** assures the most
accurate models and latest semiconductor technologies can be used. ...
www.apsimtech.com/products/Radia.htm - 10k - <u>Cached</u> - <u>Similar pages</u>

<u>SMPS Simulation With SPICE3</u>

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Searched for http://www.murata.com/emi/   **1** Results

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1 **Analysis and suppression of continuous periodic interference for on PD monitoring of power transformers**
Changchang Wang; Xianhe Jin; Cheng, T.C.; Shibo Zhang; Zongdong Wang; Dong; Deheng Zhu;
High Voltage Engineering, 1999. Eleventh International Symposium on (Conf. No. 467) , Volume: 5 , 23-27 Aug. 1999
Pages:212 - 215 vol.5

[Abstract]   [PDF Full-Text (188 KB)]   **IEE CNF**

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2 **Computer-aided nonlinear simulation at the system level**
Loyka, S.L.; Mordachev, V.I.;
Electromagnetic Interference and Compatibility '97. Proceedings of the International Conference on , 3-5 Dec. 1997
Pages:93 - 98

[Abstract]   [PDF Full-Text (592 KB)]   **IEEE CNF**

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3 **Analysis and suppression of interference for on-line monitoring of p discharge of power transformers**
Changchang Wang; Xianhe Jin; Cheng, T.C.; Shibo Zhang; Zuzhu Dong; Zhongdong Wang; Du Lin; Deheng Zhu;
Electrical Insulation and Dielectric Phenomena, 1997. IEEE 1997 Annual Repo Conference on , Volume: 2 , 19-22 Oct. 1997
Pages:530 - 533 vol.2

[Abstract]   [PDF Full-Text (316 KB)]   **IEEE CNF**

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4 **Computer-aided design of power line filters with a low cost commoi differential-mode noise diagnostic circuit**

Hsin-Lung Su; Ken-Huang Lin;
Electromagnetic Compatibility, 2001. EMC. 2001 IEEE International Symposiu
on , Volume: 1 , 13-17 Aug. 2001
Pages:511 - 516 vol.1

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1 Optical interference produced by artificial light   ▬
Adriano J. C. Moreira, Rui T. Valadas, A. M. de Oliveira Duarte
May 1997 **Wireless Networks**, Volume 3 Issue 2

Full text available: 📄 pdf(366.44 KB)   Additional Information: full citation, abstract, references, index terms

Wireless infrared transmission systems for indoor use are affected by noise and interference
induced by natural and artificial ambient light. This paper presents a characterisation
(through extensive measurements) of the interference produced by artificial light and
proposes a simple model to describe it. These measurements show that artificial light can
introduce significant in-band components for systems operating at bit rates up to several
Mbit/s. Therefore it is essential to include it ...

2 Passive model order reduction: Model order reduction for strictly passive and causal   ▬
distributed systems
Luca Daniel, Joel Phillips
June 2002 **Proceedings of the 39th conference on Design automation**

Full text available: 📄 pdf(175.64 KB)   Additional Information: full citation, abstract, references, index terms

This paper presents a class of algorithms suitable for model reduction of distributed
systems. Distributed systems are not suitable for treatment by standard model-reduction
algorithms such as PRIMA, PVL, and the Arnoldi schemes because they generate matrices
that are dependent on frequency (or other parameters) and cannot be put in a lumped or
state-space form. Our algorithms build on well-known projection-based reduction
techniques, and so require only matrix-vector product operations and are ...

Keywords: distributed systems, passive reduced order modeling

3 Computer simulation and applications: Signal processing technique utilising fourier   ◻
transform methods and Artificial Neural Network pattern recognition for interpreting
complex data from a multipoint optical fibre sensor system
D. King, W. B. Lyons, C. Flanagan, E. Lewis
January 2004 **Proceedings of the winter international synposium on Information and**
communication technologies

Full text available: 📄 pdf(148.20 KB)   Additional Information: full citation, abstract, references

A multipoint (2 sensing elements) optical fibre based sensor system capable of detecting
ethanol in water supplies is presented. The active sensing elements consist of an exposed

core U-bend configuration in order to maximise sensitivity and the sensing system is interrogated using Optical Time Domain Reflectometry (OTDR). Artificial Neural Network (ANN) Pattern Recognition techniques have been applied to the optical fibre sensor system data in order to accurately classify each sensor element te ...

4 Special issue on special feature: Ranking a random feature for variable and feature selection

Hervé Stoppiglia, Gérard Dreyfus, Rémi Dubois, Yacine Oussar

March 2003 **The Journal of Machine Learning Research**, Volume 3

Full text available: pdf(103.01 KB)   Additional Information: full citation, abstract, index terms

We describe a feature selection method that can be applied directly to models that are linear with respect to their parameters, and indirectly to others. It is independent of the target machine. It is closely related to classical statistical hypothesis tests, but it is more intuitive, hence more suitable for use by engineers who are not statistics experts. Furthermore, some assumptions of classical tests are relaxed. The method has been used successfully in a number of applications that are brie ...

5 Bidirectional reflection functions from surface bump maps

Brian Cabral, Nelson Max, Rebecca Springmeyer

August 1987 **ACM SIGGRAPH Computer Graphics , Proceedings of the 14th annual conference on Computer graphics and interactive techniques**, Volume 21 Issue 4

Full text available: pdf(1.65 MB)   Additional Information: full citation, abstract, references, citings, index terms

The Torrance-Sparrow model for calculating bidirectional reflection functions contains a geometrical attenuation factor to account for shadowing and occlusions in a hypothetical distribution of grooves on a rough surface. Using an efficient table-based method for determining the shadows and occlusions, we calculate the geometric attenuation factor for surfaces defined by a specific table of bump heights.Diffuse and glossy specular reflection of the environment can be handled in a unified manner ...

6 Special issue on independent components analysis: ICA for watermarking digital images

Stéphane Bounkong, Borémi Toch, David Saad, David Lowe

December 2003 **The Journal of Machine Learning Research**, Volume 4

Full text available: pdf(554.76 KB)   Additional Information: full citation, abstract, index terms

We present a domain-independent ICA-based approach to watermarking. This approach can be used on images, music or video to embed either a robust or fragile watermark.In the case of robust watermarking, the method shows high information rate and robustness against malicious and non-malicious attacks, while keeping a low induced distortion. The fragile watermarking scheme, on the other hand, shows high sensitivity to tampering attempts while keeping the requirement for high information rate and lo ...

7 Relaxation methods for image reconstruction

Gabor T. Herman, Arnold Lent, Peter H. Lutz

February 1978 **Communications of the ACM**, Volume 21 Issue 2

Full text available: pdf(756.66 KB)   Additional Information: full citation, abstract, references, index terms

The problem of recovering an image (a function of two variables) from experimentally available integrals of its grayness over thin strips is of great importance in a large number of scientific areas. An important version of the problem in medicine is that of obtaining the exact density distribution within the human body from X-ray projections. One approach that has been taken to solve this problem consists of translating the available information into a

system of linear inequalities. The si ...

Keywords: X-ray tomography, biomedical image processing, image reconstruction, linear inequalities, mathematical programming, relaxation techniques

8 Sequence Mining: Efficient and robust feature extraction and pattern matching of time series by a lattice structure
Polly Wan Po Man, Man Hon Wong
October 2001 **Proceedings of the tenth international conference on Information and knowledge management**

Full text available: pdf(1.48 MB)   Additional Information: full citation, abstract, references, citings, index terms

The efficiency of searching scaling-invariant and shifting-invariant shapes in a set of massive time series data can be improved if searching is performed on an approximated sequence which involves less data but contains all the significant features. However, commonly used smoothing techniques, such as moving averages and best-fitting polylines, usually miss important peaks and troughs and deform the time series. In addition, these techniques are not robust, as they often requires users to suppl ...

9 A Survey of Software for Partial Differential Equations
Marek Machura, Roland A. Sweet
December 1980 **ACM Transactions on Mathematical Software (TOMS)**, Volume 6 Issue 4

Full text available: pdf(1.99 MB)   Additional Information: full citation, references, citings, index terms

10 S-connect: from networks of workstations to supercomputer performance
Andreas G. Nowatzyk, Michael C. Browne, Edmund J. Kelly, Michael Parkin
May 1995 **ACM SIGARCH Computer Architecture News , Proceedings of the 22nd annual international symposium on Computer architecture**, Volume 23 Issue 2

Full text available: pdf(1.38 MB)   Additional Information: full citation, abstract, references, citings, index terms

S-Connect is a new high speed, scalable interconnect system that has been developed to support networks of workstations to efficiently share computing resources. It uses off-the-shelf CMOS technology to directly drive fiber-optic systems at speeds greater than 1 Gbit/sec and can realize bisection bandwidths comparable to high-end MPP systems while being >10x more cost-effective. S-Connect systems do not rely on centralized switches, but rather are composed of adaptive, topology independen ...

11 Fourier volume rendering
Tom Malzbender
July 1993 **ACM Transactions on Graphics (TOG)**, Volume 12 Issue 3

Full text available: pdf(1.76 MB)   Additional Information: full citation, references, citings, index terms

Keywords: Fourier transform, Hartley transform, projection, sampling, scientific visualization, volume rendering

12 Filtering by repeated integration
Paul S. Heckbert
August 1986 **ACM SIGGRAPH Computer Graphics , Proceedings of the 13th annual**

conference on Computer graphics and interactive techniques, Volume 20 Issue 4

Full text available: 📄 pdf(1.24 MB)   Additional Information: full citation, references, citings, index terms

13 Jagged edges: when is filtering needed?

Avi C. Naiman

October 1998 **ACM Transactions on Graphics (TOG)**, Volume 17 Issue 4

Full text available: 📄 pdf(275.67 KB)   Additional Information: full citation, abstract, references, index terms, review

Depiction of oblique edges by discrete pixels usually results in visible stair steps, often called jaggies. A variety of filtering approaches exists to minimize this visual artifact, but none has been applied selectively only to those edges that would otherwise appear jagged. A recent series of experiments has led to a model of the visibility of jagged edges. Here, we demonstrate how these data can be used efficiently to determine when filtering of edges is needed to elimin ...

Keywords: image quality, jagged edges, jaggies, visual sensitivity

14 Volume rendering II: Feature-preserving volume filtering

László Neumann, Balázs Csébfalvi, Ivan Viola, Matej Mlejnek, Eduard Gröller

May 2002 **Proceedings of the symposium on Data Visualisation 2002**

Full text available: 📄 pdf(2.73 MB)   Additional Information: full citation, abstract, references, index terms

In this paper a feature-preserving volume filtering method is presented. The basic idea is to minimize a three-component global error function penalizing the density and gradient errors and the curvature of the unknown filtered function. The optimization problem leads to a large linear equation system defined by a sparse coefficient matrix. We will show that such an equation system can be efficiently solved in frequency domain using fast Fourier transformation (FFT). For the sake of clarity, fir ...

15 Poster: Integrated Wavelet and Fourier-Mellin invariant feature in fingerprint verification system

T. B. J. Andrew, N. C. L. David

November 2003 **Proceedings of the 2003 ACM SIGMM workshop on Biometrics methods and applications**

Full text available: 📄 pdf(320.02 KB)   Additional Information: full citation, abstract, references, index terms

Today, minutiae-based and image-based are the two major approaches for the purpose of fingerprint authentication. Image based approach offers much higher computation efficiency with minimum pre-processing and proves also effective even when the image quality is too low to allow a reliable minutia extraction. However, this approach is vulnerable to shape distortions as well as variation in position, scale and orientation angle. In this paper, a novel method of image based fingerprint matching bas ...

Keywords: Fourier-Mellin Transform, Wavelet Transform, fingerprint verification, invariant features

16 Spatial anti-aliasing for animation sequences with spatio-temporal filtering

Mikio Shinya

September 1993 **Proceedings of the 20th annual conference on Computer graphics and interactive techniques**

Full text available: Additional Information:

pdf(218.01 KB)   full citation, references, citings, index terms

Keywords: anti-aliasing, computer animation, spatio-temporal filtering

17 Session P13: tensor visualization: Tensor field visualisation using adaptive filtering of noise fields combined with glyph rendering
Andreas Sigfridsson, Tino Ebbers, Einar Heiberg, Lars Wigström
October 2002 **Proceedings of the conference on Visualization '02**

Full text available: pdf(4.56 MB)   Additional Information: full citation, abstract, references, index terms

While many methods exist for visualising scalar and vector data, visualisation of tensor data is still troublesome. We present a method for visualising second order tensors in three dimensions using a hybrid between direct volume rendering and glyph rendering.An overview scalar field is created by using three-dimensional adaptive filtering of a scalar field containing noise. The filtering process is controlled by the tensor field to be visualised, creating patterns that characterise the tensor f ...

Keywords: glyph rendering, hybrid rendering, strain-rate, tensor, visualisation, volume rendering

18 Accumulation of Round-Off Error in Fast Fourier Transforms
Toyohisa Kaneko, Bede Liu
October 1970 **Journal of the ACM (JACM)**, Volume 17 Issue 4

Full text available: pdf(880.43 KB)   Additional Information: full citation, abstract, references, citings, index terms

The fast Fourier transform (FFT) is an algorithm to compute the discrete Fourier coefficients with a substantial time saving over conventional methods. The finite word length used in the computer causes an error in computing the Fourier coefficients. This paper derives explicit expressions for the mean square error in the FFT when floating-point arithmetics are used. Upper and lower bounds for the total relative mean square error are given. The theoretical results are in good agreement with ...

19 Picture Processing by Computer
Azriel Rosenfeld
September 1969 **ACM Computing Surveys (CSUR)**, Volume 1 Issue 3

Full text available: pdf(2.69 MB)   Additional Information: full citation, references, citings, index terms

20 Spectral processing of point-sampled geometry
Mark Pauly, Markus Gross
August 2001 **Proceedings of the 28th annual conference on Computer graphics and interactive techniques**

Full text available: pdf(3.06 MB)   Additional Information: full citation, abstract, references, citings, index terms

We present a new framework for processing point-sampled objects using spectral methods. By establishing a concept of local frequencies on geometry, we introduce a versatile spectral representation that provides a rich repository of signal processing algorithms. Based on an adaptive tesselation of the model surface into regularly resampled displacement fields, our method computes a set of windowed Fourier transforms creating a spectral decomposition of the model. Direct analysis and manipulati ...

Keywords: Fourier transform, point-based representations, signal processing, spectral filtering, subsampling

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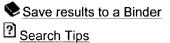**📌** Feedback Report a problem Satisfaction survey

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1 **EMIR: an expert system for electromagnetic interference resolution**   ☐
J. E. Bowen, B. A. Boewn
June 1989 **Proceedings of the second international conference on Industrial and engineering applications of artificial intelligence and expert systems - Volume 1**
Full text available: 📄 pdf(513.96 KB)   Additional Information: full citation, abstract, references, index terms

The increasing density and complexity of modern radio communications systems and the crowded electromagnetic environment make electromagnetic interference (EMI) a growing concern. To ensure electromagnetic compatibility (EMC) in Transport Canada (TC) installations, such as airports and air traffic control centres, improved methods for systems design, installation and maintenance are required. When Electromagnetic Interference is found to be a problem, immediate steps are taken to identify a ...

2 **User performance in relation to 3D input device design**   ☐
Shumin Zhai
November 1998 **ACM SIGGRAPH Computer Graphics**, Volume 32 Issue 4
Full text available: 📄 pdf(1.03 MB)   Additional Information: full citation, abstract, citings, index terms

Based mainly on a series of studies the author conducted at the University of Toronto, this article reviews the usability of various six degrees of freedom (6 DOF) input devices for 3D user interfaces. The following issues are covered in the article: the multiple aspects of input device usability (performance measures), mouse based 6 DOF interaction, mouse modifications for 3D interfaces, free-moving isotonic 6 DOF devices, desktop isometric and elastic 6 DOF devices, armature-based 6 DOF device ...

3 **On temporal-spatial realism in the virtual reality environment**   ☐
Jiandong Liang, Chris Shaw, Mark Green
October 1991 **Proceedings of the 4th annual ACM symposium on User interface software and technology**
Full text available: 📄 pdf(673.02 KB)   Additional Information: full citation, references, citings, index terms

4 **E-textiles: Challenges and opportunities in electronic textiles modeling and optimization**   ☐
Diana Marculescu, Radu Marculescu, Pradeep K. Khosla
June 2002 **Proceedings of the 39th conference on Design automation**

Full text available: pdf(769.90 KB)   Additional Information: full citation, abstract, references, index terms

This paper addresses an emerging new field of research that combines the strengths and capabilities of electronics and textiles in one: electronic textiles, or e-textiles. E-textiles, also called Smart Fabrics, have not only "wearable" capabilities like any other garment, but also local monitoring and computation, as well as wireless communication capabilities. Sensors and simple computational elements are embedded in e-textiles, as well as built into yarns, with the goal of gathering sensitive ...

5 Built-in self-test for signal integrity
Mehrdad Nourani, Amir Attarha
June 2001 **Proceedings of the 38th conference on Design automation**

Full text available: pdf(149.79 KB)   Additional Information: full citation, abstract, references, index terms

Unacceptable loss of signal integrity may harm the functionality of SoCs permanently or intermittently. We propose a systematic approach to model and test signal integrity in deep-submicron high-speed interconnects. Various signal integrity problems occurring on such interconnects (e.g. crosstalk, overshoot, noise, skew, etc.) are considered in a unified model. We also present a test methodology that uses a noise detection circuitry to detect low integrity signals and an inexpensive test ar ...

6 Interference of bluetooth and IEEE 802.11: simulation modeling and performance evaluation
N. Golmie, R. E. Van Dyck, A. Soltanian
July 2001 **Proceedings of the 4th ACM international workshop on Modeling, analysis and simulation of wireless and mobile systems**

Full text available: pdf(657.91 KB)   Additional Information: full citation, abstract, references, citings, index terms

The emergence of several radio technologies such as Bluetooth, and IEEE 802.11 operating in the 2.4 GHz unlicensed ISM frequency band may lead to signal interference and result in significant performance degradation when devices are co-located in the same environment. The main goal of this paper is to present a simulation environment for modeling interference based on detailed MAC and PHY models. This framework is then used to evaluate the impact of interference on the performance of Bluetoot ...

Keywords: IEEE 802.11, WPANs, bluetooth, interference

7 Interference evaluation of Bluetooth and IEEE 802.11b systems
N. Golmie, R. E. Van Dyck, A. Soltanian, A. Tonnerre, O. Rébala
May 2003 **Wireless Networks**, Volume 9 Issue 3

Full text available: pdf(203.73 KB)   Additional Information: full citation, abstract, references, index terms

The emergence of several radio technologies, such as Bluetooth and IEEE 802.11, operating in the 2.4 GHz unlicensed ISM frequency band, may lead to signal interference and result in significant performance degradation when devices are colocated in the same environment. The main goal of this paper is to evaluate the effect of mutual interference on the performance of Bluetooth and IEEE 802.11b systems. We develop a simulation framework for modeling interference based on detailed MAC and PHY model ...

Keywords: Bluetooth, IEEE 802.11b, WPANs, interference

8 Health aspects of wireless communication: a real and present wireless danger
James C. Lin
January 2000 **ACM SIGMOBILE Mobile Computing and Communications Review**, Volume 4 Issue 1

Full text available: pdf(227.31 KB)   Additional Information: full citation, index terms

9 Columns: Risks to the public in computers and related systems
Peter G. Neumann
March 2004 **ACM SIGSOFT Software Engineering Notes**, Volume 29 Issue 2
Full text available: pdf(165.39 KB)   Additional Information: full citation

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1 Analysis of the HDAF for interpolation and noise suppression in volume rendering   ▭
Kristoffer Andersson, Ioannis A. Kakadiaris, Manos Papadakis, Donald J. Kouri, David K. Hoffman
May 2003   **Proceedings of the symposium on Data visualisation 2003**
Full text available: 📄 pdf(991.89 KB)   Additional Information: full citation, abstract, index terms

> In this paper, we evaluate the HDAF (Hermite Distributed Approximating Functionals) family of interpolation and derivative functions, with respect to their accuracy for reliable volume rendering, and compare them with other interpolation and derivative estimation filters. We utilize several different evaluation methods, both analytical and experimental. The former includes the order of decay of the global error, the local spatial error, and the behavior of the filters in the frequency domain. In ...

2 Progress in Picture Processing: 1969--71   ▭
Azriel Rosenfeld
June 1973   **ACM Computing Surveys (CSUR)**, Volume 5 Issue 2
Full text available: 📄 pdf(2.34 MB)   Additional Information: full citation, references, citings, index terms

3 Intelligent scissors for image composition   ☐
Eric N. Mortensen, William A. Barrett
September 1995   **Proceedings of the 22nd annual conference on Computer graphics and interactive techniques**
Full text available: 📄 pdf(363.56 KB)
📄 ps(4.92 MB)   Additional Information: full citation, references, citings, index terms

4 Solution to the indexing problem of frequency domain simulation experiments   ☐
Mousumi Mitra, Stephen K. Park
December 1991   **Proceedings of the 23rd conference on Winter simulation**
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1 **Applications of Fourier transforms in digital magnetic recording the**
Mallinson, J.;
Magnetics, IEEE Transactions on , Volume: 10 , Issue: 1 , Mar 1974
Pages:69 - 77

[Abstract]   [PDF Full-Text (728 KB)]   **IEEE JNL**

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2 **Simulations and measurements of picosecond signal transients,**
propagation, and crosstalk on lossy VLSI interconnect
Yungseon Eo; Eisenstadt, W.R.;
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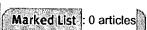Basic Search | Advanced Search | Topic Guide | Publication Search | Marked List : 0 articles | Interface language: English
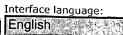
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